OMB APPROVAL NUMBER: 0693-0009 APPROVAL EXPIRES: NOVEMBER 30, 2006

NIST-1263 (REV. 11-2003) DAO 203-26

U.S. DEPARTMENT OF COMMERCE

NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY

(FOR ATP USE ONLY)

JOINT VENTURE ADVANCED TECHNOLOGY PROGRAM (ATP) PROPOSAL COVER SHEET (CATALOG OF FEDERAL DOMESTIC ASSISTANCE NUMBER 11.612)

Public reporting burden for this collection of information is estimated to average thirty (30) hours per response, including the time for reviewing instructions, searching
existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden
estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Director, Advanced Technology Program, National
Institute of Standards and Technology, 100 Bureau Drive, Stop 4700, Administration Building, Room A333, Gaithersburg, Maryland 20899-4700.

institute of Standards and Technology, 100 Bureau Drive, Stop 4700, Administration Building, Room A333, Gaitnersburg, Maryland 20899-4700.						
1. COMPETITION NUMBER	2. EMPLOYER IDENTIFICATIO	N NUMBER (EIN)	3. DUN AND BRADS	STREET NUMBER	4. PROJECT DUR	RATION
					YEARS	MONTHS
5. LEGAL NAME, ADDRESS, AND WEBSITE OF SUBMITTING ORGANIZATION				IPAL INVESTIGATOR AT f different than Item 5)	SUBMITTING ORGA	ANIZATION
			TELEPHONE NUMB	ER:		
			FAX NUMBER:			
			E-MAIL ADDRESS:			
7. NAME OF BUSINESS MANAGER AT SUBMITTING ORGANZATION (Address required, if different than Item 5)			8. NAME OF GRANT/CONTRACT MANAGER AT SUBMITTING ORGANIZATION (Address required, if different than Item 5)			
TELEPHONE NUMBER:			TELEPHONE NUMB	ER:		
FAX NUMBER:			FAX NUMBER:			
E-MAIL ADDRESS:			E-MAIL ADDRESS:			
9. ORGANIZATION TYPE (Mark o	one in column 1 and any that a					
PROFIT—SMALL BUSINE	SS	PUBLIC COMPA	NY (Ticker symbol)		
PROFIT—MEDIUM BUSIN	ESS	FOREIGN-OWN	ED, U.SLOCATED CO	OMPANY		
PROFIT—LARGE BUSINE	ess					
NONPROFIT ORGANIZAT	ION					
10. SOURCES OF FUNDS	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	TOTAL
A. ATP	\$	\$	\$	\$		\$
B. PROPOSER	\$	\$	\$	\$		\$
C. TOTAL (A + B)	\$	\$	\$	\$	5	\$
11. PROPOSAL TITLE						
12. NONPROPRIETARY PROPOS	SAL ABSTRACT					

	CERTIFICATION: BY SIGNING THIS PROPOSAL COVER SHEET, I CERTIFY, TO THE BEST OF MY KNOWLEDGE AND BELI OPOSAL IS TRUE AND CORRECT AND THAT THE FOLLOWING QUESTIONS HAVE BEEN TRUTHFULLY ANSWERED:	EF, THAT ALL INFORMATION	IN THIS
FRC	POSAL IS TRUE AND CORRECT AND THAT THE POLLOWING QUESTIONS HAVE BEEN TROTHPILLT ANSWERED.	YE	s no
A.	IS THIS PROPOSAL REQUESTING FUNDING FOR EXISTING OR PLANNED RESEARCH PROJECTS THAT WOULD BE CO THE SAME TIME PERIOD IN THE ABSENCE OF FINANCIAL ASSISTANCE UNDER ATP?	NDUCTED IN	
В.	ARE ANY OF THE JOINT VENTURE PARTNERS DELINQUENT ON ANY FEDERAL DEBT? (If yes, explain in item 14.)		
C.	WAS THIS PROPOSAL OR A VERY SIMILAR PROPOSAL SUBMITTED TO ANOTHER FEDERAL AGENCY? (If yes, explain	n item 14.)	
D.	DOES THE PROPOSED R&D INVOLVE THE USE OF HUMAN SUBJECTS, AND/OR HUMAN TISSUE, AND/OR HUMAN CELL explain in item 14, and indicate whether the research plan has been reviewed and approved by an Institutional Review Bo (IRB).]		
E.	DOES THE PROPOSED R&D INVOLVE THE USE OF LIVE VERTEBRATE ANIMALS? (If yes, explain in item 14, and indicate research plan has been reviewed and approved by an Animal Care and Use Committee.)	whether the	
F.	DO ANY OF THE JOINT VENTURE PARTNERS HAVE A PARENT COMPANY OUTSIDE THE UNITED STATES? (If yes, identicultimate parent company or companies, and place(s) of incorporation of parent company or companies in item 14.)	fy the partner(s),	
G.	ARE ANY OF THE JOINT VENTURE PARTNERS MAJORITY OWNED BY NON-U.S. CITIZENS? (If yes, explain in item 14.)		
Н.	ARE ANY OF THE JOINT VENTURE PARTNERS SUBJECT TO CONTROL BY NON-U.S. CITIZENS? (If yes, explain in item 1	4.)	
14.	REMARKS (Continue on a separate sheet if necessary.)		
Ì			
45	DESCRIPE PRICELY WILLY FEDERAL ASSISTANCE IS NEEDED FOR THIS JOINT VENTURE TO FORM OR WILLY AN EXISTING	IO IOINT VENTURE	
REC	DESCRIBE BRIEFLY WHY FEDERAL ASSISTANCE IS NEEDED FOR THIS JOINT VENTURE TO FORM, OR WHY AN EXISTIN QUIRES FEDERAL ASSISTANCE TO EMBARK ON THIS PROPOSED PROJECT. ALSO, DESCRIBE WHAT EFFORTS WERE N IDING TO SECURE PRIVATE CAPITAL TO SUPPORT THIS PROJECT WHOLLY. NOTE: PROVIDING A GENERAL STATEMEN	ADE PRIOR TO APPLYING FO	
	VATE CAPITAL IS UNACCEPTABLE.	IT INDICATING THE UNAVAIL	ABILITY OF
16.	AUTHORIZED COMPANY REPRESENTATIVE (Type name and title.) 17. TELEPH	ONE NUMBER	
18.	SIGNATURE 19. DATE		

ES	TIMATED MUL	TI-YEAR BUD	OGET—JOINT	VENTURE	Y	EAR:
SPECIFY NAME OF PARTICIPANT:	PARTICIPANT	PARTICIPANT	PARTICIPANT	PARTICIPANT	PARTICIPANT	TOTAL
OBJECT CLASS CATEGORY A. Personnel salaries/wages	\$	\$	\$	\$	\$	\$
B. Fringe benefits						
C. Travel						
D. Equipment						
E. Materials/supplies						
F. Subcontracts						
G. Other						
H. Total direct costs (lines A thru G)						
I. Total indirect costs						
J. Total costs (lines H + I)	\$	\$	\$	\$	\$	\$
K. Non-ATP funds	\$	\$	\$	\$	\$	\$
L. ATP funds requested	\$	\$	\$	\$	\$	\$
2. SOURCES OF FUNDS						
A. ATP (same as line L)	\$	\$	\$	\$	\$	\$
В.						
C.						
D.						
E. Total sources of funds (same as line J)	\$	\$	\$	\$	\$	\$
3. TASKS	1					
A.	\$	\$	\$	\$	\$	\$
В.						
C.						
D.						
Е.						
F.						
G.						
н.						
I.						
J.						
K. Total costs of all tasks (same as line J)	\$	\$	\$	\$	\$	\$

	PAGE OF
OTHER JOINT VENTURE PARTICIPANTS (DO	NOT INCLUDE SUBMITTING ORGANIZATION)
1. LEGAL NAME, ADDRESS AND WEBSITE OF PARTICIPANT	2. ORGANIZATION TYPE (Mark one in column 1 and any that apply in column 2.) PROFIT—SMALL BUSINESS PUBLIC COMPANY (Ticker symbol) PROFIT—MEDIUM BUSINESS
	PROFIT—LARGE BUSINESS FOREIGN-OWNED, U.SLOCATED COMPANY NONPROFIT ORGANIZATION
	UNIVERSITY GOVERNMENT LABORATORY
NAME OF CONTACT: TELEPHONE NUMBER: FAX NUMBER: E-MAIL ADDRESS:	3. EMPLOYEE IDENTIFICATION NUMBER (EIN) 4. DUN AND BRADSTREET NUMBER
1. LEGAL NAME, ADDRESS AND WEBSITE OF PARTICIPANT	2. ORGANIZATION TYPE (Mark one in column 1 and any that apply in column 2.) PROFIT—SMALL BUSINESS PROFIT—MEDIUM BUSINESS PROFIT—LARGE BUSINESS FOREIGN-OWNED, U.SLOCATED COMPANY
	NONPROFIT ORGANIZATION UNIVERSITY GOVERNMENT LABORATORY
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NAME OF CONTACT: TELEPHONE NUMBER: FAX NUMBER: E-MAIL ADDRESS:	3. EMPLOYEE IDENTIFICATION NUMBER (EIN) 4. DUN AND BRADSTREET NUMBER

	PAGE OF
SUBCONT	RACTS
1. NAME AND ADDRESS OF SUBCONTRACTOR	2. ORGANIZATION TYPE (Mark one in column 1 and any that apply in column 2) PROFIT—SMALL BUSINESS PUBLIC COMPANY (Ticker symbol
NAME OF CONTACT:	
TELEPHONE NUMBER: FAX NUMBER: E-MAIL ADDRESS:	3. ESTIMATED AMOUNT OF SUBCONTRACT
5. IS THIS A SOLE-SOURCE SUBCONTRACT? NO YES (If yes, explain why this subcontractor is the only one that ca	on perform the work and the nature of its unique capability/experience.)
6. DOES THE SUBCONTRACTOR HAVE ANY FINANCIAL OR OTHER INTEREST IN THE NO YES (If yes, briefly explain what type and how much.)	SUBMITTNG ORGANIZATION?
7. DOES THE SUBMITTING ORGANIZATION HAVE ANY FINANCIAL OR OTHER INTERI NO YES (If yes, briefly explain what type and how much.)	EST IN THE SUBCONTRACTOR?
1. NAME AND ADDRESS OF SUBCONTRACTOR	2. ORGANIZATION TYPE (Mark one in column 1 and any that apply in column 2) PROFIT—SMALL BUSINESS PUBLIC COMPANY (Ticker symbol
NAME OF CONTACT: TELEPHONE NUMBER: FAX NUMBER:	3. ESTIMATED AMOUNT OF SUBCONTRACT
E-MAIL ADDRESS: 4. DESCRIBE SCOPE OF WORK AND IDENTIFY WHICH TASK OR TASKS IN R&D PLAN	N REQUIRE SUBCONTRACTOR'S INVOLVEMENT.
IS THIS A SOLE-SOURCE SUBCONTRACT? NO YES (If yes, explain why this subcontractor is the only one that ca	n perform the work and the nature of its unique capability/experience.)
6. DOES THE SUBCONTRACTOR HAVE ANY FINANCIAL OR OTHER INTEREST IN THE NO YES (If yes, briefly explain what type and how much.)	SUBMITTNG ORGANIZATION?
7. DOES THE SUBMITTING ORGANIZATION HAVE ANY FINANCIAL OR OTHER INTERIOR NO YES (If yes, briefly explain what type and how much.)	EST IN THE SUBCONTRACTOR?